

Title (en)

Device for active lateral centring and damping of vibrations of railway vehicles (AQZ cylinder)

Title (de)

Vorrichtung zur aktiven Querzentrierung und Schwingungsdämpfung bei Schienenfahrzeugen (AQZ-Zylinder)

Title (fr)

Dispositif pour le centrage latéral actif et l'amortissement des vibrations de véhicules ferroviaires (AQZ cylindre)

Publication

**EP 0936124 B1 20020417 (DE)**

Application

**EP 99250013 A 19990115**

Priority

DE 19806347 A 19980212

Abstract (en)

[origin: EP0936124A2] the vehicle has a passive spring damper system and an active pneumatic system with at least one double-sided piston-cylinder unit with at least one valve (6,7) per cylinder chamber (8,9) for delivering air and at least one for removing air. At least one electronic unit derives the valve pressure values to be regulated from detected cross motions. A bypass line (10) connecting both cylinder chamber outlets is used to remove air from a cylinder chamber. A pressure line or opening with a reduced cross-section branching from the bypass line communicates with the atmosphere, whereby the bypass line is connected to the atmosphere via a non-return valve (35) in a pressure line (34).

IPC 1-7

**B61F 5/24**

IPC 8 full level

**B61F 5/24** (2006.01); **F16F 15/02** (2006.01)

CPC (source: EP)

**B61F 5/245** (2013.01); **F16F 15/02** (2013.01)

Cited by

CN105109561A; GB2355238A; GB2355238B; CH694426A5

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0936124 A2 19990818**; **EP 0936124 A3 20000503**; **EP 0936124 B1 20020417**; AT E216327 T1 20020515; DE 19806347 C1 19990715; DE 59901230 D1 20020523; ES 2178346 T3 20021216

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